PE/Cyanine7 anti-human CX3CR1 Antibody

Catalog# / Size	341611 / 25 tests 341612 / 100 tests
Clone	2A9-1
Regulatory Status	RUO
Other Names	V28, GPR13, Chemokine C-X3-C receptor 1
Isotype	Rat IgG2b, κ
Description	CX3CR1 is a G-protein-coupled seven-transmembrane chemokine receptor, also called GPR13 or V28. It is expressed on NK cells, T cell subset, monocytes/macrophages, dendritic cells, and some malignant epithelial cells. CX3CL1 (known also as fractalkine and neurotactin) is the ligand of CX3CR1. CX3CL1 is a unique transmembrane molecule with a CX3C-motif chemokine domain and a mucin-like stalk. CX3CL1 is expressed by activated-endothelial cells, neurons, and astrocytes. The interaction of CX3CR1 and its ligand mediatesfirm cell adhesion and migration.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	CX3CR1-EGFP fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.

Application References

(PubMed link indicates BioLegend citation)

1. Nishimura M, *et al.* 2002. *J. Immunol.* 168:6173.
2. Nanki T, *et al.* 2002. *Arthritis Rheum.* 46:2878.
3. Kobayashi T, *et al.* 2007. *Inflamm. Bowel Dis.* 13:837.
4. Beziat V, *et al.* 2011. *J. Immunol.* 186:6753. PubMed.

Product Citations

1. Merah-Mourah F, *et al.* 2021. Curr Protoc. 1:e229. PubMed
2. Wragg KM, *et al.* 2020. Cell Reports. 31(11):107773. PubMed
3. Sato Y, *et al.* 2012. PLoS One. 7:e42776. PubMed

RRID	AB_10900265 (BioLegend Cat. No. 341611) AB_10900816 (BioLegend Cat. No. 341612)

Antigen Details

Structure	G-protein-coupled seven transmembrane receptor
Distribution	NK cells, T cell subset, monocytes/macrophages, dendritic cells
Function	cell adhesion and migration
Ligand/Receptor	CX3CL1 (Fractalkine, FKN, neurotactin)
Cell Type	Dendritic cells, Macrophages, Monocytes, NK cells, T cells
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience, Neuroscience Cell Markers
Molecular Family	Cytokine/Chemokine Receptors, GPCR
Antigen References	1. Imai T, *et al.* 1997. *Cell.* 91:521. 2. Fong AM, *et al.* 1998. *J. Exp. Med.* 188:1413. 3. Auffray C, *et al.* 2009. *J. Exp. Med.* 206:595.
Gene ID	1524

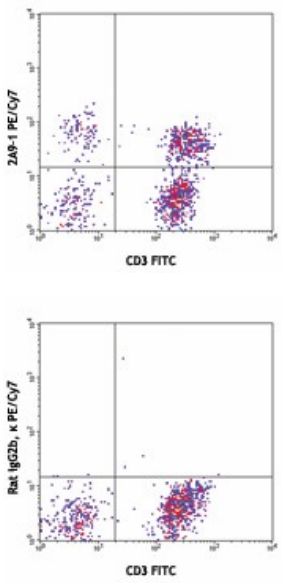
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

PE/Cyanine7 anti-human CX3CR1, Purified anti-human CX3CR1, PE anti-human CX3CR1, FITC anti-human CX3CR1, Alexa Fluor® 647 anti-human CX3CR1, APC anti-human CX3CR1, PerCP/Cyanine5.5 anti-human CX3CR1, APC/Cyanine7 anti-human CX3CR1, Biotin anti-human CX3CR1, Brilliant Violet 510™ anti-human CX3CR1, Brilliant Violet 421™ anti-human CX3CR1, PE/Dazzle™ 594 anti-human CX3CR1, Brilliant Violet 650™ anti-human CX3CR1, Brilliant Violet 785™ anti-human CX3CR1, Brilliant Violet 711™ anti-human CX3CR1, APC/Fire™ 750 anti-human CX3CR1

Product Data



Human peripheral blood lymphocytes were stained with CD3 FITC and CX3CR1 (clone 2A9-1) PE/Cyanine7 (top) or rat IgG2b, κ PE/Cyanine7 isotype control (bottom).

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